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Class 427 COATING PROCESSES

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1	BODY MEMBER PRINTING (E.G., FINGERPRINTING, ETC.)
<u>1</u> 2.1	MEDICAL OR DENTAL PURPOSE PRODUCT; PARTS; SUBCOMBINATIONS;
	INTERMEDIATES (E.G., BALLOON CATHETER, SPLINT)
2.11	. Analysis, diagnosis, measuring, or testing product (e.g., specimen preparation,
<u>Z.11</u>	microscope slide smearing)
2.12	For contacting living body or transfusing bodily fluid (e.g., endoscope, electrode,
<u>2.12</u>	
2.42	thermometer, probe)
<u>2.13 </u>	Layer formed contains chemical reagent or chemically reacts with substrate (e.g.,
	cell stain or fix, pH paper, immobilized antigen)
<u>2.14 </u>	Particulate or unit-dosage-article base (e.g., tablet, pill, pellet, capsule, liposome,
	powder, controlled-release implant, suppository; excluding transdermal patch)
<u>2.15</u>	Fluidized bed utilized
<u>2.16 </u>	Retarded or controlled-release layer produced (e.g., enteric)
<u>2.17</u>	Significant color or other intended appearance altering layer formed (e.g., shining,
	indicia)
2.18	En masse rotating means employed (e.g., rotating pan, tumbling)
2.19	Retarded or controlled-release layer produced (e.g., enteric)
2.2	Significant color or other intended appearance altering layer formed (e.g., shining,
	indicia)
2.21	Retarded or controlled-release layer produced (e.g., enteric)
2.22	Gelatin matrix layer produced
2.23	Significant color or other intended appearance altering layer formed (e.g., shining,
	indicia)
2.24	. Implantable permanent prosthesis (i.e., artificial body member) (e.g., pacemaker,
	lens, cornea, glaucoma shunt, heart valve, muscle, spinal disc, breast, internal organ)
2.25	Liquid conveying (e.g., vascular, arterial, bile duct, urethra)
2.26	For mineralized body part (e.g., bone, tooth, crown, hip)
2.27	Inorganic oxygen-containing compound containing layer formed (e.g.,
2.21	hydroxyapatite, ceramic, glass)
2.28	. Device for creating or holding open an unnatural opening in a membrane or organ
2.20	(e.g., syringe, scalpel, drainage tube)
2 20	Dental product (e.g., floor, denture, orthodoptic wire)
<u>2.29</u>	. Dental product (e.g., floss, denture, orthodontia wire)
<u>2.3</u>	. Fluid barrier or fluid transporting product, other than merely absorbing (e.g.,
	surgical glove, condom, lined diaper, membrane filter, IV tubing, cannula, dialysis
2.24	membrane, urinary catheter)
<u>2.31 </u>	. Flexible web, sheet, film, or filament base (e.g., fabric, bandage, suture, transdermal
_	patch, orthopedic cast tape)
<u>4</u>	PLANT MEMBER OR ANIMAL SPECIMEN COATING
<u>5</u>	RADIOACTIVE BASE OR COATING
<u>6</u>	. Particles or nuclear reactor fuel elements coated
<u>7_</u>	FRAUD OR TAMPER DETECTING
<u>8</u>	MEASURING, TESTING, OR INDICATING
4 5 6 7 8 9 10 11	. Thickness or uniformity of thickness determined
<u>10</u>	Electrical or optical
<u>11</u>	FRICTIONAL APPLICATION (I.E., RUBBING SOLID COATING MATERIAL ON
	BASE)

SPRAY COATING UTILIZING FLAME OR PLASMA HEAT (E.G., FLAME 446 **SPRAYING, ETC.)** . Organic containing coating 447 448 . Nonuniform or patterned coating . Continuous feed solid coating material (e.g., wire, rod, or filament, etc.) 449 . Inorganic carbon containing coating, not as steel (e.g., carbide, etc.) 450 <u>451</u> .. Additionally containing nickel, cobalt, or iron as free metal or alloy . Silicon containing coating 452 . Metal oxide containing coating 453 .. Superposed diverse or multilayer similar coatings applied 454 . Metal or metal alloy coating 455 .. Aluminum, nickel, cobalt, or iron metal or alloy containing coating <u>456</u> DIRECT APPLICATION OF ELECTRICAL, MAGNETIC, WAVE, OR PARTICULATE 457 **ENERGY** . Electrostatic charge, field, or force utilized 458 459 .. Fluidized bed utilized 460 ... Ionization or corona discharge utilized ... Heating or fusing applied coating 461 .. Flock or fiber applied <u>462</u> ... Pile- or nap-type surface formed 463 Heating, drying, or cooling adhesive surface 464 465 Organic substrate specified (e.g., fabric, etc.) 466 .. Nonuniform or patterned coating (e.g., ink jet printing, etc.) <u>467</u> ... Edging or striping ... Mask or stencil utilized 468 ... Coating material consists of charged particles (e.g., paint, pigment, dye, etc.) 469 4<u>70</u> .. Superposed diverse or multilayer similar coatings applied .. Applying coatings to opposite sides of a substrate (excluding processes where all 471 coating is by immersion) 472 .. Positioning, orientation, or application of nonsprayed, nonatomized coating material solely by electrostatic charge, field, or force 473 ... Inorganic substrate 474 ... Solid particles applied 475 .. Solid particles or atomized liquid applied ... Inside hollow articles 476 477 ... Articles or substrates sequentially moved past atomizing source 478 Collection of off-target or fugitive coating material <u>479</u> Utilizing multiple spray sources (e.g., atomizers) Movable atomizer or spray source (e.g., spray source or atomizer rotates, 480 reciprocates, oscillates, etc.) <u>481</u> Rotatable base or support for substrate 482 ... Running or indefinite length substrate <u>483</u> ... Utilizing apparatus to atomize and electrostatically charge liquid coating material (e.g., charging electrode adjacent spray source, etc.) 484 Rotatable atomizer or spray source 485 ... Coating contains organic material 486 Inorganic substrate 487 . Polymerization of coating utilizing direct application of electrical, magnetic, wave, or particulate energy (i.e., including cross-linking, curing, and hardening of organics) 488 .. Plasma initiated polymerization <u>489</u> ... Organosilicon containing coating 490 ... Flurocarbon containing coating <u>491</u> ... Organic substrate .. Multiple applications of identical radiation energy source to polymerize (e.g., pulse, 492 flash, lamp, etc.) <u>493</u> .. Application of plural diverse energy sources to polymerize (e.g., electromagnetic wave plus resistance heat, ultraviolet wave plus infrared wave, etc.) <u>494</u> .. Gloss control (e.g., light scattering, etc.)

.. Polymerization involving the control of oxygen containing gas as an inhibitor (e.g., 495 air, etc.) .. High energy electromagnetic radiation or high energy particles utilized (e.g., gamma 496 rays, X-rays, atomic particles, i.e., alpha rays, beta rays, electrons, etc.) ... Vapor deposition utilized <u>497</u> ... Immersion, partial immersion, spraying, or spin coating utilized (e.g., dipping, etc.) 498 Natural cellulose substrate <u> 499</u> ... Coating material includes colorant or pigment 500_ ... Textile, fiber, or wire coated or impregnated 501 ... Magnetic recording medium formed 502_ ... Organosilicon containing coating material 503 ... Nonuniform or patterned coating (e.g., mask, printing, etc.) 504 ... Coating is adhesive or intended to be made adhesive (e.g., release sheet or <u>505</u> coating, etc.) ... Benzene ring or nitrogen containing coating material 506 Styrene or carboxamide group containing coating material (e.g., urea, urethane, 507 .. Low energy electromagnetic radiation utilized (e.g., UV, visible, IR, microwave, 508 radio wave, actinic, laser, etc.) <u>509</u> ... Vapor deposition utilized ... Nonuniform or patterned coating (e.g., mask, printing, textured, etc.) 510 Printing ink utilized 511 ... Immersion, partial immersion, spraying, or spin coating utilized (e.g., dipping, etc.) 512 ... Textile or fiber coated or impregnated 513 ... Coating material includes colorant or pigment 514 <u>515</u> ... Organosilicon containing coating material ... Coating is adhesive or is intended to be made adhesive (e.g., release sheet or <u>516</u> coating, etc.) ... Coating includes specified rate affecting material <u>517</u> Inorganic substrate 518 Keto or aldehyde containing group is part of the rate affecting coating material <u>519</u> (e.g., benzoin, benzophenone, acetaldehyde, etc.) ... Benzene ring or nitrogen containing coating material 520 ... Radiation as heat source (e.g., radiant energy, etc.) 521 .. Resistance or induction heat-initiated polymerization 522 523_ . Ion plating or implantation .. With simultaneous sputter etching of substrate 524 .. Organic material present in substrate, plating, or implanted layer <u>525</u> .. Nonuniform or patterned ion plating or ion implanting (e.g., mask, etc.) 526 .. Silicon present in substrate, plating, or implanted layer <u>527</u> .. Inorganic oxide containing plating or implanted material 529 .. Inorganic metal compound present in plating or implanted material (e.g., nitrides, 530 carbides, borides, etc.) .. Metal or metal alloy substrate 528 .. Metal or metal alloy plating or implanted material 531 . Pretreatment of substrate or post-treatment of coated substrate 532 .. Ionized gas utilized (e.g., electrically powered source, corona discharge, plasma, 533 glow discharge, etc.) ... Cleaning or removing part of substrate (e.g., etching with plasma, glow discharge, 534 ... Plasma (e.g., cold plasma, corona, glow discharge, etc.) 535 536 Organic substrate Metal containing coating <u>537</u> 538 Textile or fiber coated or impregnated Oxygen containing atmosphere 539 540 .. Arc or electrical discharge 541 .. Drying ... Infrared or radiant heating <u>542</u> .. Induction or dielectric heating 543

etc.)

... Organic coating containing material 544_ <u>545</u> .. Resistance heating ... Metal or metal alloy containing coating 546_ .. Magnetic field or force utilized 547 ... Magnetic recording medium or device formed 548 Running length substrate 549 ... Magnetizable powder, flakes, or particles utilized <u>550</u> .. High energy electromagnetic radiation or high energy particles utilized (e.g., gamma 551_ ray, X-ray, atomic particle, i.e., alpha ray, beta ray, high energy electron, etc.) ... Nonuniform or patterned coating 552 .. Low energy electromagnetic radiation (e.g., microwave, radio wave, IR, UV, visible, 553 actinic, laser, etc.) 554 ... Laser Nonuniform or patterned coating 555 Metal or metal alloy substrate 556_ ... Thermal processes (e.g., radiant heat, infrared, etc.) 557 <u>558</u> Ultraviolet light <u>559</u> Fusing, curing, or annealing (e.g., ceramics, etc.) .. Sonic or ultrasonic (e.g., cleaning or removing material from substrate, etc.) 560 . Pretreatment of coating supply or source outside of primary deposition zone or off 561 .. Electric discharge (e.g., corona, glow discharge, etc.) 562 563 ... Silicon containing coating material ... Metal, metal alloy, or metal oxide containing coating material 564 .. Sonic or ultrasonic (e.g., vibratory energy, etc.) 565 .. Electron irradiation (e.g., e-beam evaporation, etc.) <u>566</u> <u>567</u> ... Silicon or metal oxide coating (e.g., glass, etc.) .. Silicon containing coating supply or source 568 569 . Plasma (e.g., corona, glow discharge, cold plasma, etc.) 570 .. Utilizing plasma with other nonionizing energy sources <u>571</u> ... With magnetic enhancement 572 ... Light as energy source 573 ... With heated substrate 574 ... Silicon containing coating <u>575</u> .. Generated by microwave (i.e., 1mm to 1m) <u>576</u> .. Metal, metal alloy, or metal oxide coating 577 .. Inorganic carbon containing coating material, not as steel (e.g., carbide, etc.) <u>578</u> .. Silicon containing coating material ... Silicon oxides or nitrides 579 580 . Electrical discharge (e.g., arcs, sparks, etc.) 581 . Chemical deposition from liquid contiguous with substrate via electron beam or light (e.g., photochemical liquid deposition, etc.) 582 . Photoinitiated chemical vapor deposition (i.e., photo CVD) <u>583</u> .. Silicon containing coating 584 .. Metal, metal alloy, or metal oxide coating <u>585</u> . Chemical vapor deposition (e.g., electron beam or heating using IR, inductance, resistance, etc.) 586 .. Pyrolytic use of laser or focused light (e.g., IR, UV lasers to heat, etc.) 587 .. Resistance or induction heating 588 ... Silicon or semiconductor material containing coating 589 Silicon carbide 590 ... Boron, nitrogen, or inorganic carbon containing coating <u>591</u> . Induction or dielectric heating 592 . Resistance heating 593 .. Vapor deposition employing resistance heating of substrate or coating material 594 .. Immersion or partial immersion 595 . Electromagnetic or particulate radiation utilized (e.g., IR, UV, X-ray, gamma ray, actinic, microwave, radio wave, atomic particle; i.e., alpha ray, beta ray, electron,

<u>596</u>	Laser or electron beam (e.g., heat source, etc.)
597	Metal or metal alloy containing coating material applied
598	. Magnetic field or force utilized
599	Magnetic recording medium or device formed
600	. Sonic or ultrasonic
<u>601</u>	Immersion bath utilized
<u>58</u>	ELECTRICAL PRODUCT PRODUCED
<u>50</u> 59	. Welding electrode
	Post-treating with solid treating member
<u>60</u>	Metal coating or Group IIA metallic compound containing coating
<u>61</u>	
<u>62</u>	. Superconductor
<u>63</u>	Nonuniform coating
<u>64</u>	. Fluorescent or phosphorescent base coating (e.g., cathode-ray tube, luminescent
	screen, etc.)
<u>65</u>	X-radiation properties
<u>66</u>	Electroluminescent lamp
<u>67</u>	Fluorescent lamp
<u>68</u>	Multicolor or mosaic (e.g., color T.V. tube, etc.)
<u>69</u>	Vapor deposition
70	Nonmetallic coating formed by vapor deposition
71	Particles applied
72	Rotating the base
72 73	Settling out of liquid
74	. Photoelectric
74 75 76 77	Mosaic or nonuniform coating
7 <u>5</u> 76	Coating is selenium, tellurium, or compound thereof
<u>70</u> 77	. Electron emissive or suppressive (excluding electrode for arc)
77	
<u>78</u>	Vapor deposition or spraying
<u>79</u>	. Condenser or capacitor
<u>80</u>	Electrolytic or barrier layer type
<u>81</u>	Vacuum or pressure utilized
<u>96</u>	. Integrated circuit, printed circuit, or circuit board
<u>97</u>	Coating hole walls
98	Immersion metal plating from solution (e.g., electroless plating, etc.)
99	Vapor deposition
<u>100</u>	. Piezoelectric properties
<u>101</u>	. Resistor for current control (excludes heating element)
102	Nonuniform coating
103	Applying superposed diverse coatings or coating a coated base
104	. Motor stator or core for winding
105	. Hollow article
106	Glass (e.g., light bulb, etc.)
107	Vapor deposition
108	. Transparent base
109	Vapor deposition
$\frac{109}{110}$	Spraying
111	. Filament for lamp or tube
	Carbon filament
<u>112</u>	. Carbon hanelit
113	
114	Brushes
115	. Fuel cell part
<u>116</u>	. Coil or winding
<u>117</u>	. Wire conductor
<u>118</u>	Applying superposed coatings or coating a coated base
<u>119</u>	Foam, cellular, or natural rubber coating
<u>120</u>	Heat utilized
<u>121</u>	. Cellulosic or fibrous base (e.g., wood, paper, etc.)
<u>122</u>	. Carbon coating
123	. Metal coating

<u>124</u>	Vapor deposition or utilizing vacuum
	Silver, gold, platinum, or palladium
<u>125</u>	
<u> 126.1</u>	. Metallic compound coating
126.2	Glass or ceramic base or coating
126.2	Metal oxide, peroxide, or hydroxide coating
126.2 126.3	
<u> 126.4</u>	Metal is Al
126.5	Metal is Au, Ag, Pt, Pd, Ru, Rh, Os, Ir
<u>126.6</u>	Metal is Ni, Fe, or Co
<u> 127</u>	MAGNETIC BASE OR COATING
128	. Magnetic coating
<u>129</u>	With pretreatment of base
<u>130</u>	With post-treatment of coating or coating material
131	Applying superposed diverse coating or coating a coated base
<u>132</u>	Metal coating
<u> 133</u>	MOLD COATING
134	. Sand mold
<u>135</u>	. Metal mold
<u> 136</u>	COATING PAVEMENT OR THE EARTH (E.G., ROADMAKING, ETC.)
<u>137</u>	. Striping, marking, or increasing reflectivity
138	. Asphalt, bitumen, oil, or tar containing coating
<u>139 </u>	Rolling
<u> 140 </u>	RESTORING OR REPAIRING
141	. Carbon paper or inked ribbon
<u>142</u>	. Metal article
<u>143</u>	STENCIL BLANK MAKING
144	HECTROGRAPHIC OR COPYING SURFACE MAKING
145	LATENT IMAGE FORMED OR DEVELOPED
<u> 146</u>	TRANSFER OR COPY SHEET MAKING
<u>147 </u>	. Decal or embossing foil type (i.e., continuous film transfers)
<u>148</u>	Heat sensitive
<u>149</u>	Fluid releasable
<u>150</u>	. Reactive components
<u> 151 </u>	Heterocyclic organic compound component
<u>152</u>	. Coating opposite sides or forming plural or nonuniform coats
	- · · · · · · · · · · · · · · · · · · ·
<u>153 </u>	. Carbon paper type
<u> 154</u>	REMOVABLE PROTECTIVE COATING APPLIED
<u>155</u>	. Organic base
<u>156</u>	. Metal base
<u> 157</u>	FLUORESCENT OR PHOSPHORESCENT COATING
158	. Optical brightening
159	INCANDESCENT MANTLE PRODUCED
<u> 160</u>	COATING HAS X-RAY, ULTRAVIOLET, OR INFRARED PROPERTIES
<u> 161</u>	TRANSPARENCY OR TRANSLUCENCY INCREASED (E.G., MAKING WINDOW
<u> </u>	ENVELOPES, ETC.)
160	
<u>162</u>	OPTICAL ELEMENT PRODUCED
<u>163.1</u>	. Polarizer, windshield, optical fiber, projection screen, or retroreflector
163.2	Optical fiber, rod, filament, or waveguide
163.3	Projection screen
<u>163.4</u>	Retroreflector (e.g., light reflecting small spherical beads, etc.)
164	. Transparent base
165	Glass
<u>166</u>	Vapor depositing
<u> 167</u>	Silicon compound coating (e.g., quartz, etc.)
<u>168</u>	Spraying
169	Immersion
<u>170</u>	DELUSTERING FABRIC OR YARN
<u>171</u>	WITH STRETCHING OR TENSIONING
<u>172</u>	. Running lengths
173	Lateral stretching
<u> </u>	ii Latera, et eterring

<u>174 </u>	Particles or fibers applied
<u>175</u>	Cord, thread, yarn, or wire
<u> 176</u>	Textile fabric
<u> 177</u>	WITH WINDING, BALLING, ROLLING, OR COILING
<u>178</u>	. Metal or glass base (e.g., wire, etc.)
179	. Paper or felt base
180	SOLID PARTICLES OR FIBERS APPLIED
181	. Interior or hollow article coating
182	Fluidized bed utilized
183	Rotating the base
184	. Nonuniform speed or nonrectilinear base motion
	. Fluidized bed utilized
185 186	
<u>186</u>	. Roofing produced
<u>187</u>	With cutting
<u>188</u>	Localized different areas produced
<u>189</u>	. Uniting particles to form continuous coating with nondiscernible particles
<u>190</u>	Metallic compound particles
<u> 191</u>	Metal particles
<u> 192</u>	Aluminum, copper, or zinc particles
<u>193 </u>	Vitrifiable particles
<u> 194</u>	Roller utilized
195	Synthetic resin particles
196	. Plural direction application of coating materials or simultaneously applying particles
	and binder from different sources
<u> 197</u>	. Localized different areas produced (e.g., printing, etc.)
198	Deforming the base or coating or removing part of the coating
199	Silicon compound, metal, or metallic compound containing particles applied
200	Flock or fibers applied
<u>201</u>	. Plural particulate materials applied
202	. Applying superposed diverse coatings or coating a coated base
<u>202</u> 203	Coating over the applied coating of particles
<u>203</u> 204	
	Silicon compound containing particles (e.g., sand, etc.)
<u>205</u>	Metal or metallic compound containing particles
<u>206</u>	Flock or fibers applied
<u> 207.1</u>	COATING REMAINS ADHESIVE OR IS INTENDED TO BE MADE ADHESIVE
200	Application to consults added at hear
<u>208</u>	. Application to opposite sides of base
208.2	. Heat sensitive adhesive
<u>208.4</u>	. Pressure sensitive adhesive
<u> 208.6</u>	Nonuniform coating (e.g., perforated, etc.)
<u>208.8</u>	Applying superposed diverse coatings or coating a coated base
<u> 209</u>	APPLICATION TO OPPOSITE SIDES OF SHEET, WEB, OR STRIP (EXCLUDING
	PROCESSES WHERE ALL COATING IS BY IMMERSION)
<u>210 </u>	. Nonuniform coating
<u>211</u>	. Roller applicator utilized
212	PARTICLES, FLAKES, OR GRANULES COATED OR ENCAPSULATED
213	. Fluidized bed utilized
213.3	. Solid encapsulation process utilizing an emulsion or dispersion to form a solid-walled
	microcapsule (includes liposome)
<u>213.31</u>	With post-treatment of encapsulant or encapsulating material (e.g., further coating,
220101	hardening, etc.)
<u>213.32</u>	Hardening
213.32	Hardening
213 22	Using crosslinking agent
<u>213.33</u>	Using crosslinking agent
212 24	Solid-walled microcancule formed by in city polymerication
<u>213.34</u>	Solid-walled microcapsule formed by in situ polymerization
213.35	Solid-walled microcapsule formed from gelatin or derivative thereof
	25 Manda maradapada formad nom goldan of delivative thereof

213.36	Solid-walled microcapsule formed from preformed synthetic polymer
214	. Applying superposed diverse coatings or coating a coated base
215	
216	Metal base
<u>216</u>	
<u>217</u>	
218	Pigment containing coating
219	Silicon compound containing coating
<u>220 </u>	Organic coating
<u>221</u>	Resin, rubber, or hardenable oil containing coating
<u> 222 </u>	. Resin base
<u>223</u>	 Organic coating Resin, rubber, or hardenable oil containing coating . Resin base FLAME CONTACT
224	. After coating
225	. Metal coating
226	HEAT DECOMPOSITION OF APPLIED COATING OR BASE MATERIAL
227	
228	
229	
<u>220</u>	
<u>231</u>	. Rotating the article
<u>232</u>	Removing excess coating material
<u>233</u>	Spraying
<u> 234 </u>	Metal base
<u>235 </u>	. Removing excess coating material
230	. Spraying
<u>237</u>	. Coating by vapor, gas, mist, or smoke
238	. Vacuum or pressure utilized
239	. Metal base
240	. Coating by vapor, gas, mist, or smoke . Vacuum or pressure utilized . Metal base CENTRIFUGAL FORCE UTILIZED
241	. Metal coating
<u>242</u>	RUMBLING OR TUMBLING
243	FORAMINOUS PRODUCT PRODUCED
243 244	. Filter, sponge, or foam
244 245	Microporous conting (a.g. waner normanhle, etc.)
245	. Microporous coating (e.g., vapor permeable, etc.)
<u>246</u>	
<u>247</u>	
<u>248.1</u>	COATING BY VAPOR, GAS, OR SMOKE
249.1	. Carbon or carbide coating
249.2	Chemical vapor infiltration (i.e., CVI) of porous base (e.g., fiber, fibrous web, etc.)
249.3	Fiber or fibrous web or sheet base (e.g., strand, filament, fabric, cloth, etc.)
249.4	Inorganic carbon base (e.g., graphite, etc.)
249.5	Boron and carbon containing coating (e.g., boron carbide, etc.)
	Graphite coating
<u>249.6</u>	
<u>249.7</u>	Diamond-like carbon coating (i.e., DLC)
<u>249.8</u>	Diamond coating
<u>249.9</u>	Patterned or non-uniform coating
<u>249.11</u>	Hot filament utilized
249.12	Diamond seed crystals utilized
<u>249.13</u>	Tungsten containing base
249.14	Superposed coatings (i.e., layered)
<u>249.15</u>	Silicon and carbon containing coating (e.g., silicon carbide, etc.)
249.16	Inorganic carbon base (e.g., graphite, etc.)

.. Metal carbide containing coating 249.17 ... Chromium (Cr), molybdenum (Mo), or tungsten (W) metal carbide containing 249.18 coating ... Titanium (Ti), zirconnium (Zr), or hafnium (Hf) metal carbide containing coating 249.19 . Metal coating <u>250</u> .. Moving the base 251 252 .. By decomposing metallic compound (e.g., pack process, etc.) ... Halogen containing compound 253 . Wood base 254 . Base includes an inorganic compound containing silicon or metal (e.g., glass, 255.11 ceramic, brick, etc.) .. Chemical vapor infiltration (i.e., CVI) of porous base (e.g., fiber, fibrous web etc.) 255.12 255.13 .. Glaze coating produced .. Organic compound containing coating 255.14 .. Plural coatings applied utilizing vapor, gas, or smoke 255.15 255.18 .. Silicon containing coating ... Halogen containing coating, reactant, or precursor 255.17 .. Metal oxide containing coating 255.19 .. Base includes inorganic metal containing compound 255.21 ... Iron compound containing base (e.g., ferric oxide, etc.) 255.22 . Mixture of vapors or gases (e.g., deposition gas and inert gas, inert gas and reactive 255.23 gas, two or more reactive gases, etc.) utilized .. Fiber or fibrous web or sheet based (e.g., strand, filament, fabric, cloth, etc.) <u>255.24</u> .. Mixture contains liquid or solid particulate suspension 255.25 255.26 .. Coating formed by reaction of vaporous or gaseous mixture with a base (i.e., reactive coating of non-metal base) 255.27 ... Silicon containing coating 255.28 .. Coating formed from vaporous or gaseous phase reaction mixture (e.g., chemical vapor deposition, CVD, etc.) ... Inorganic oxygen, sulfur, selenium, or tellurium (i.e., chalcogen) containing coating 255.29 (e.g., phosphosilicate, silicon oxynitride, etc.) Metal and chalcogen containing coating (e.g., metal oxide, metal sulfide, metal 255.31 telluride, etc.) Plural metal containing coating (e.g., indium oxide/tin oxide, titanium 255.32 oxide/aluminum oxide, etc.) 255.33 Zinc (Zn), cadmium (Cd), or mercury (Hg), containing Gallium (Ga), aluminum (Al), or indium (In) containing <u>255.34</u> Germanium (Ge), tin (Sn), or lead (Pb) containing 255.35 Titanium (Ti) or zirconium (Zr) containing <u>255.36</u> Silicon dioxide coating 255.37

<u>255,38</u> ... Phosphorus or boron containing coating (e.g., aluminum boride, boron phosphide etc.) ... Halogen or halogen compound containing reactant 255.39 255.391 Titanium compound containing coating (e.g., titanium carbonitride, titanium nitride, etc.) Tungsten compound containing coating (e.g., tungsten silicide, etc.) 255.392 255.393 Silicon containing coating 255.394 ... Nitrogen containing coating (e.g., metal nitride, etc.) <u>255.395</u> .. Inorganic coating 255.4 . Base supplied constituent 255.5 . Moving the base 255.6 . Organic coating applied by vapor, gas, or smoke . Plural coatings applied by vapor, gas, or smoke 256 **NONUNIFORM COATING** . Wrinkled or crackled coating 258 . Applying superposed diverse coatings or coating a coated base 259 .. Including a masking coating 260 .. Handheld brush or absorbent applicator utilized 261 .. Final coating nonuniform 262 ... Variegated surface produced (e.g., mottled, stippled, wood grained, etc.) 263 Marbleized <u> 264</u> ... Deforming the base or coating or removing a portion of the coating <u> 265</u> ... Plural nonuniform coatings 266 Glass or ceramic base 267 .. Variegated surface produced (e.g., mottled, stippled, wood grained, etc.) 268 ... Marbleized 269 .. Glass or ceramic base 270 .. Deforming the base or coating or removing a portion of the coating 271 . Deforming the base or coating or removing a portion of the coating 272 .. Mask or stencil utilized 273 .. Fluid treating the coating (e.g., vapor treating, etc.) <u>274</u> .. Variegated surface produced (e.g., stippled, marbleized, mottled, wood grained, etc.) 275 .. Deforming the base 276 ... Simultaneously deforming the coating 277 .. Solid treating member contacts coating <u> 278</u> ... Roller treating member 279 . Vitreous coating 280 . Variegated surface produced (e.g., mottled, wood grained, etc.) 281 .. Marbleized 282 . Mask or stencil utilized 283 . Crystalization or precipitation coating 284 . Edge or border coating <u> 285</u> .. Paper or textile base <u> 286</u> . Striping (i.e., forming stripes) 287 . Metal, glass, or ceramic base 288 . Paper or textile base 289 WITH CUTTING, HOLDING, SEVERING, OR ABRADING THE BASE 290 . Prior to coating 291 .. Wood base (e.g., injecting, etc.) 292 .. Inorganic base 293 . Rectilinear cutting to length 294 **VACUUM UTILIZED PRIOR TO OR DURING COATING** 295 . Metal base

<u> 296</u> . Organic base .. Wood base 297 298 ... Creosote, wax, oil, asphalt, or bitumen coating WITH PRETREATMENT OF THE BASE 299 300 . Shielding or spacing . Preapplied reactant or reaction promoter or hardener (e.g., catalyst, etc.) 301 .. Resin, rubber, or hardenable oil containing coating 302 ... Cellulosic base <u> 303</u> 304 .. Metal coating (e.g., electroless deposition, etc.) 305 ... Nickel, copper, cobalt, or chromium coating Organic base <u>306</u> . Etching, swelling, or dissolving out part of the base 307 .. Cellulosic base 308 .. Inorganic base 309 310 . Fluxing <u> 311 </u> .. Supernatant flux (floating) ... Lead or tin coating 312 .. Lead or tin coating 31<u>3</u> 314 . Heating or drying pretreatment .. Steam utilized <u>315</u> .. Organic base 316 ... Wood base 317 318 .. Metal base 319 ... Metal coating 320 Aluminum coating 321 Zinc or spelter coating (e.g., galvanizing, etc.) <u> 322</u> . Organic base <u> 323</u> .. Natural protein containing base (e.g., silk, wool, leather, etc.) .. Cellulosic base 324 325 ... Wood base ... Paper base 326 <u>327</u> . Metal base 328 .. Metal coating 32<u>9</u> ... Molten metal bath utilized 330 .. Vitreous coating 331 WITH POST-TREATMENT OF COATING OR COATING MATERIAL <u>332</u> . Deodorizing 333 . Plural film forming coatings wherein one coating contains a chemical treating agent for the other 334 . Oil or wax treatment of coating 335 . Solvent vapor treatment of coating <u>336</u> . Swelling agent or solvent applied to treat coating 337 . Chemical agent applied to treat coating 338 .. Proteinaceous coating 339 .. Cellulosic coating 340 .. Resin, resin precursor, rubber, or hardenable oil containing coating 341 ... Inorganic treating agent 342 ... Textile or cellulosic base 343 .. Inorganic coating <u>344</u> ... Silicon compound containing coating 345 . Coating material recirculation or regeneration 346 . Movement of work treats coating (e.g., vibrating, tilting, etc.) 347 .. Metal coating 348 . Gas jet or blast mechanically treats coating 349 .. Metal coating . Vacuum or reduced pressure utilized 350 <u>351</u> .. Wood base 352 . Liquid extraction of coating constituent or cleaning coating .. With water

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... Drying subsequent to washing
<u>354</u>
             . Solid treating member or material contacts coating
355
             .. Die, blade, or sharp-edged tool
<u>356</u>
357
             ... Metal coating
358
             ... Organic coating
359
             .. Roller, drum, or cylinder
360
             ... Metal coating
             ... Paper base (e.g., calendering, etc.)
<u> 361</u>
362
             .... Cast coating
             .... Wax or oil containing coating
<u> 363</u>
364
             .... Casein or starch containing coating
             ... Treating between rollers (e.g., calendering, etc.)
<u> 365</u>
366
             .... With heating (e.g., heated roller, etc.)
             .. Metal coating
368
             .. Brushing
             .. Pressure treatment of coating (e.g., squeezing, etc.)
<u> 369</u>
<u>370</u>
             ... With heating (e.g., hot ironing, etc.)
371
             .. Organic base
<u>372.2</u>
             . Heating or drying (e.g., polymerizing, vulcanizing, curing, etc.)
.. Cells, foam, or bubbles formed
             .. And cooling
374.1
374.2
             ... Heating after cooling
<u>374.3</u>
             .... Without intervening coating step
374.4
             ... Fused or molten coating cooled
<u>374.5</u>
             .... Liquid or solid cooling medium
             .... Vacuum, vapor, or gas other than air utilized
374.6
<u>374.7</u>
             .... Vitreous or glazed coating
<u> 375</u>
             .. Fusion or softening of coating
376.1
             ... Inorganic coating
<u>376.2</u>
             .... Metal oxide- or silicon-containing coating (e.g., glazed, vitreous enamel, etc.)
376.3
             ..... Metal-containing coating (e.g., cermet, etc.)
<u>376.4</u>
             ..... Metal base
376.5
             ..... Ferrous base
376.6
             .... Metal-containing coating
376.7
             ..... Coating consists of metal
<u>376.8</u>
             ..... Metal base
.. Modified condition of atmosphere (e.g., steam, air movement, etc.)
378
             ... Movement of atmosphere
<u>379</u>
             .. Plural heating or drying steps
380
             ... Metal or metallic compound containing coating
             ... Textile or cellulosic base
381
382
             .... Paper or natural cellulose base
383.1
             .. Metal coating
<u>383.3</u>
             ... Inorganic base
             .... Fused oxide-containing base (e.g., ceramic, glass, etc.)
<u>383.5</u>
             .... Metal base
<u>383.7</u>
384
             .. Organic coating
385.5
             ... Resin, resin precursor, rubber, or hardenable oil-containing coating
386
             .... Epoxy or polyepoxide containing coating
387
             .... Silicon compound containing coating
             .... Metal base
388.1
388.2
             ..... Cross-linked or infusible coating
388.3
             ..... Aldehyde-containing precursor
<u>388.4</u>
             ..... Water-containing coating (i.e., aqueous dispersion, emulsion, or solution)
             .... Nonaqueous dispersion
<u>388.5</u>
389
             .... Proteinaceous base (e.g., wool, leather, etc.)
389.7
             .... Glass base
389.8
             ..... Fiberglass base
<u> 389.9</u>
             .... Textile or cellulose base
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<u> 391</u> Paper base Natural cellulose base 392 Wood base 393 Antistatic properties increased 393.1 Wrinkle resistance of crease holding properties increased 393.2 393.3 Flame resistance increased Antisoiling or water repellency increased 393.4 <u>393.5</u> Resin, rubber, or elastomer base 393.6 Asbestos, ceramic, concrete, or masonry base 394 ... Textile or cellulosic base Paper base <u> 395</u> 396 Natural cellulose base Wood base 397 397.7 .. Inorganic silicon-containing coating 397<u>.8</u> ... Alkali silicate 398.1 . Cooling .. Utilizing solid member contacting base or coating (e.g., cooling roller, etc.) 398.2 <u>398.3</u> .. Liquid utilized (e.g., quenching, spraying, etc.) 398.4 .. Vacuum, vapor, or gas other than air utilized <u>398.5</u> .. Movement of atmosphere **BASE SUPPLIED CONSTITUENT** 399 400 . Resin or rubber base 401 COMBINED 402 APPLYING SUPERPOSED DIVERSE COATING OR COATING A COATED BASE 403 . Settable inorganic coating (e.g., cement, etc.) 404 . Metal coating 405 .. Metal base 406 ... Zinc coating 407.1 . Synthetic resin coating 407.2 .. Glass base 407.3 ... Fiberglass base 4<u>08</u> .. Wood base 409 .. Metal base 410 ... Epoxy or polyepoxide containing coating <u>411</u> .. Paper base 412 .. Textile or leather base 412.1 .. Nonfibrous organic base 412.2 ... Cellulose derivative base ... Polyolefin base 412.3 412.4 ... Halogen-containing resin base 412.5 ... Polyester or alkyd resin base 413 . Natural rubber or derivative containing coating 414 . Protein or derivative containing coating (e.g., casein, glue, gelatin, etc.) 415 . Cellulosic coating 416 . Wax containing coating 417 . Natural resin, oil, or fat containing 418 .. Metallic compound-containing coating <u>419.1</u> . Metallic compound-containing coating 419.2 .. Oxide-containing coating 419.3 ... Superposed diverse oxide coatings Vitreous coating 419.4 419.5 ... Organic coating 419.6 ... Vitreous coating <u>419.7</u> .. Boride, carbide, nitride, phosphide, silicide, or sulfide-containing coating <u>419.8</u> .. Organometallic or metal salt of organic compound-containing coating 420 FALLING CURTAIN OF COATING MATERIAL UTILIZED (I.E., CURTAIN COATING) 421 **SPRAYING** <u>422</u> . Heated coating material

424 425 426 427 428 429	 . Moving the base Rotating or inverting . Ingredients supplied separately . Inorganic coating material ROLLER APPLICATOR UTILIZED (E.G., PADDING, ETC.) BRUSH OR ABSORBENT APPLICATOR UTILIZED
<u>430.1</u>	IMMERSION OR PARTIAL IMMERSION
431 432 433 434.2 434.3 434.4 434.5 434.6 434.7 435 436 437 438 439 440 441 442 443 443.1 443.2 444	 Coating applied at surface of bath only Base treated by solid member in bath (e.g., scraped, squeezed, etc.) Coating material moved (e.g., agitated, circulated, etc.) Cord, thread, yarn, wire, or rod Extending through bath-containing wall
445	MISCELLANEOUS

CROSS-REFERENCE ART COLLECTIONS

900	CHEMICAL VAPOR INFILIRATION (I.E., CVI)
<u>901</u>	LIQUID SOURCE CHEMICAL DEPOSTION (I.E., LSCVD) OR AEROSOL CHEMICAL
	VAPOR DEPOSITION (I.E., ACVD)
<u>903 </u>	FULLERENE TYPE BASE OR COATING
<u>902</u>	DIAMOND-LIKE CARBON COATING (I.E., DLC)
<u>904</u>	. Utilizing low energy electromagnetic radiation (e.g., microwave, radio wave, IR, UV,
	visible, actinic laser, etc.)
<u>905</u>	. Utilizing ion plating or ion implantation
<u>906</u>	. Utilizing plasma (e.g., corona, glow discharge, cold plasma, etc.)

FOREIGN ART COLLECTIONS

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FOR000 CLASS-RELATED FOREIGN DOCUMENTS

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collection listed below. These collections contain ONLY foreign patents or nonpatent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

COATING BY VAPOR, GAS, OR SMOKE

FOR100 . Carbon or carbide coating (427/249)

FOR101 . Base includes inorganic silicon or metal containing compound (e.g., glass, ceramic, brick, etc.) (427/255)

FOR102 . Mixture of vapors or gases utilized (427/255.1)

FOR103 .. The resultant coating is a mixture or a compound formed from the mixture utilized

(427/255.2)

FOR104 ... The mixture utilized contains oxygen (427/255.3)

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